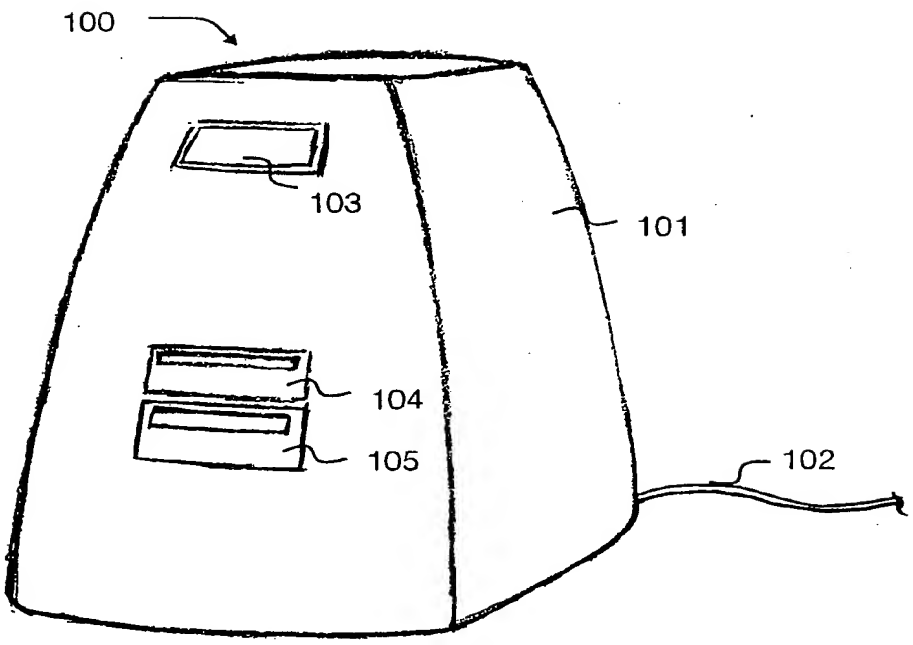

Fig. 1

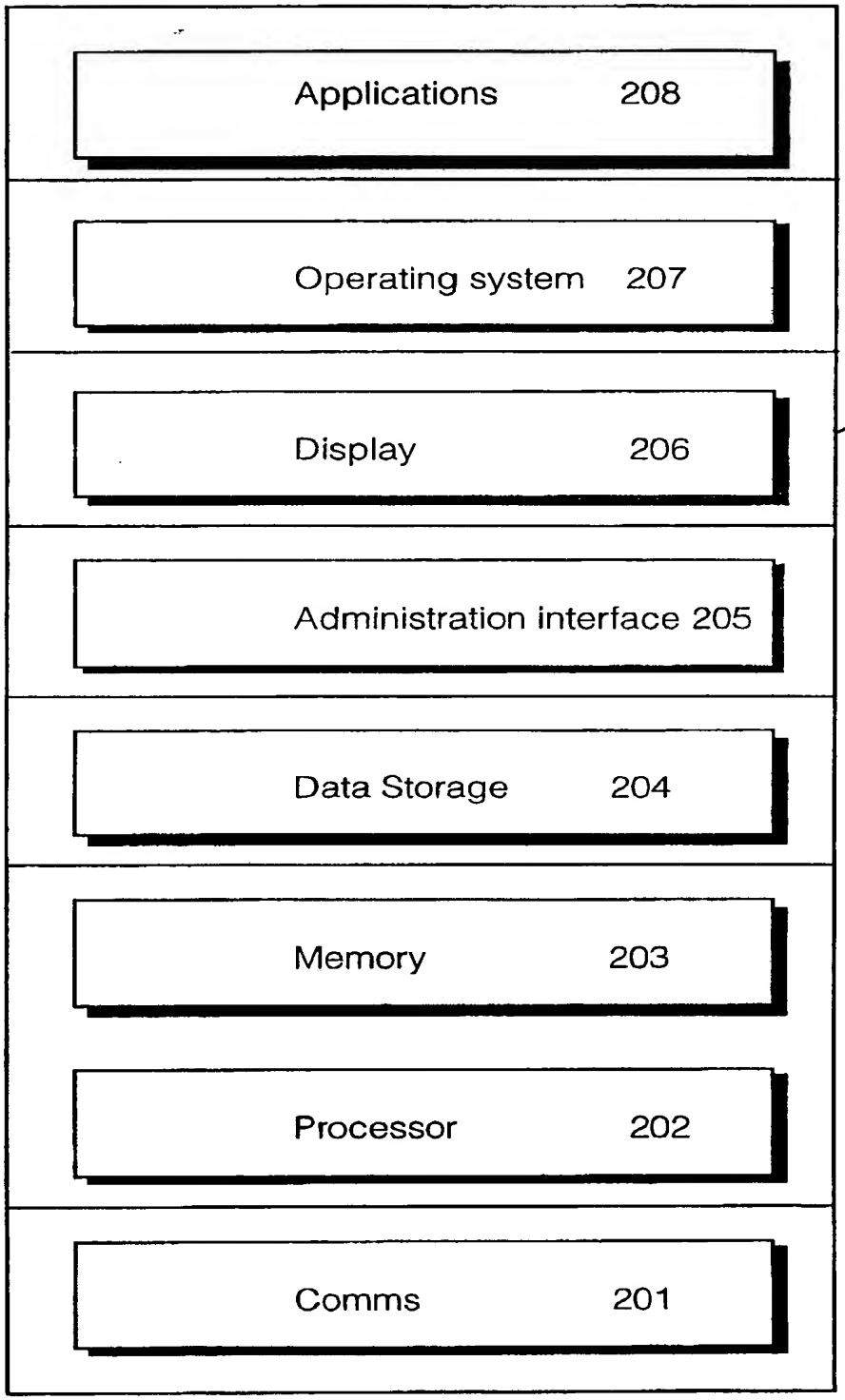
Applications 208
Operating system 207
Display 206
Administration interface 205
Data Storage 204
Memory 203
Processor 202
Comms 201
200

Fig. 2

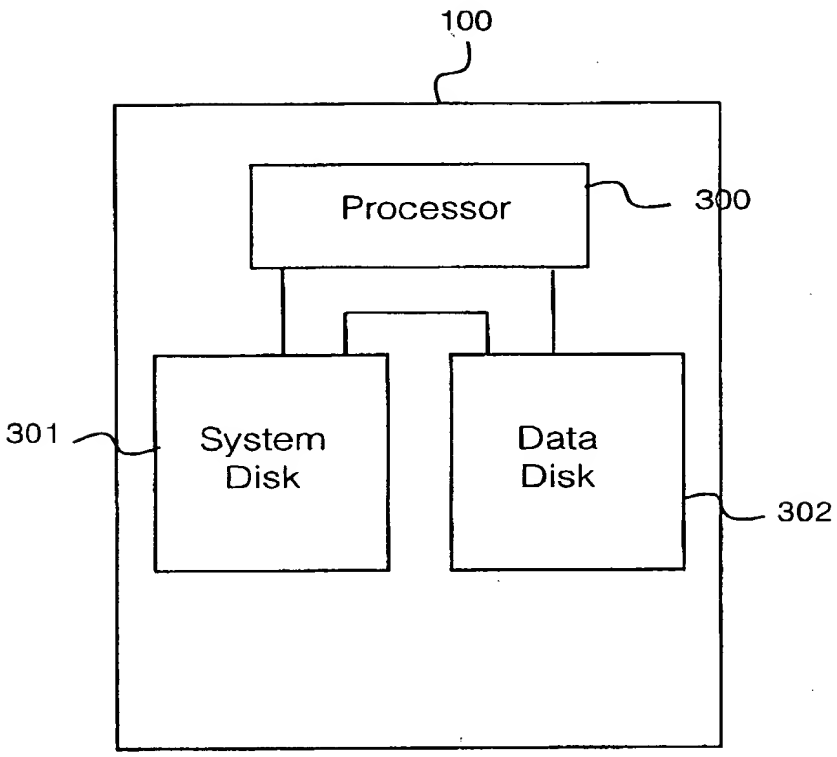

Fig. 3

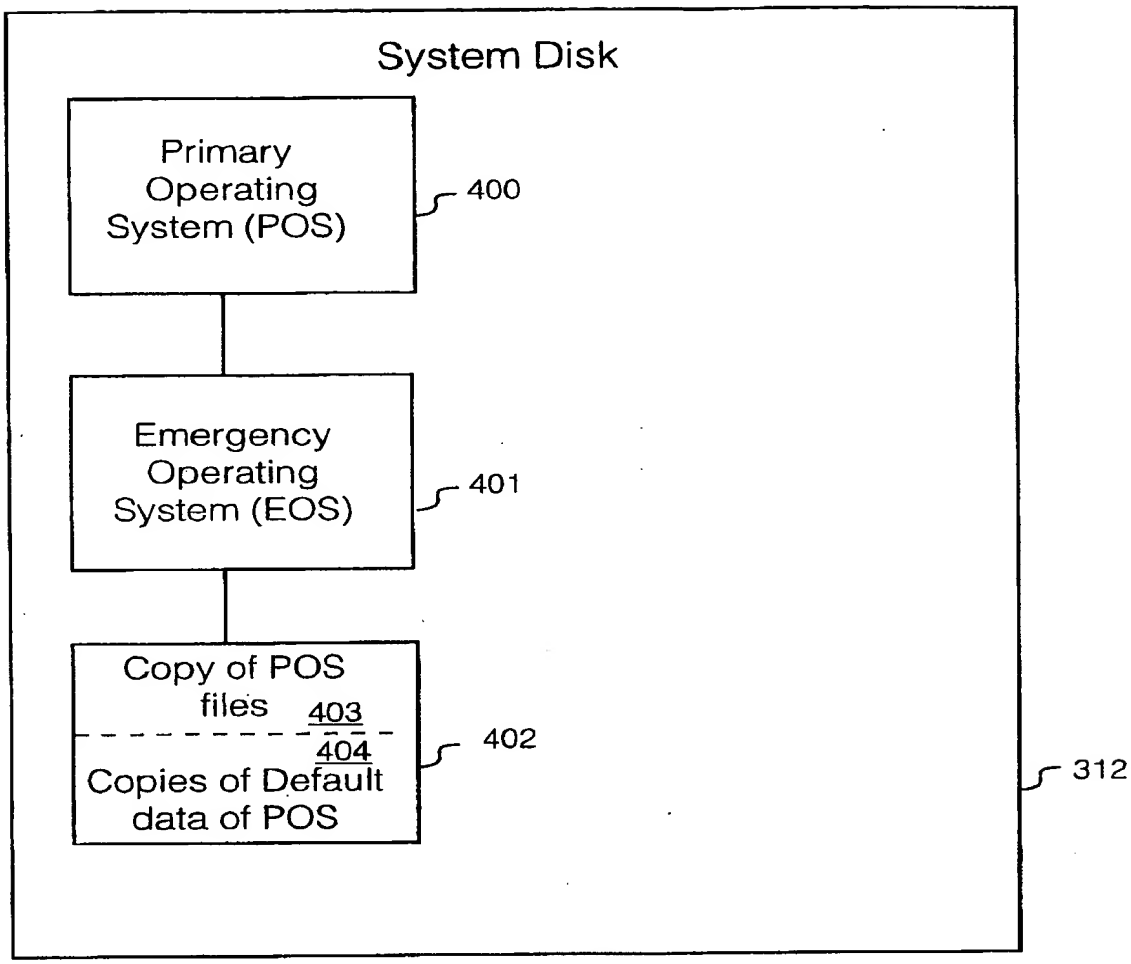
System Disk
Primary Operating System (POS)
400
Emergency Operating System (EOS)
401
Copy of POS files
403
404
Copies of Default data of POS
402
312

Fig. 4

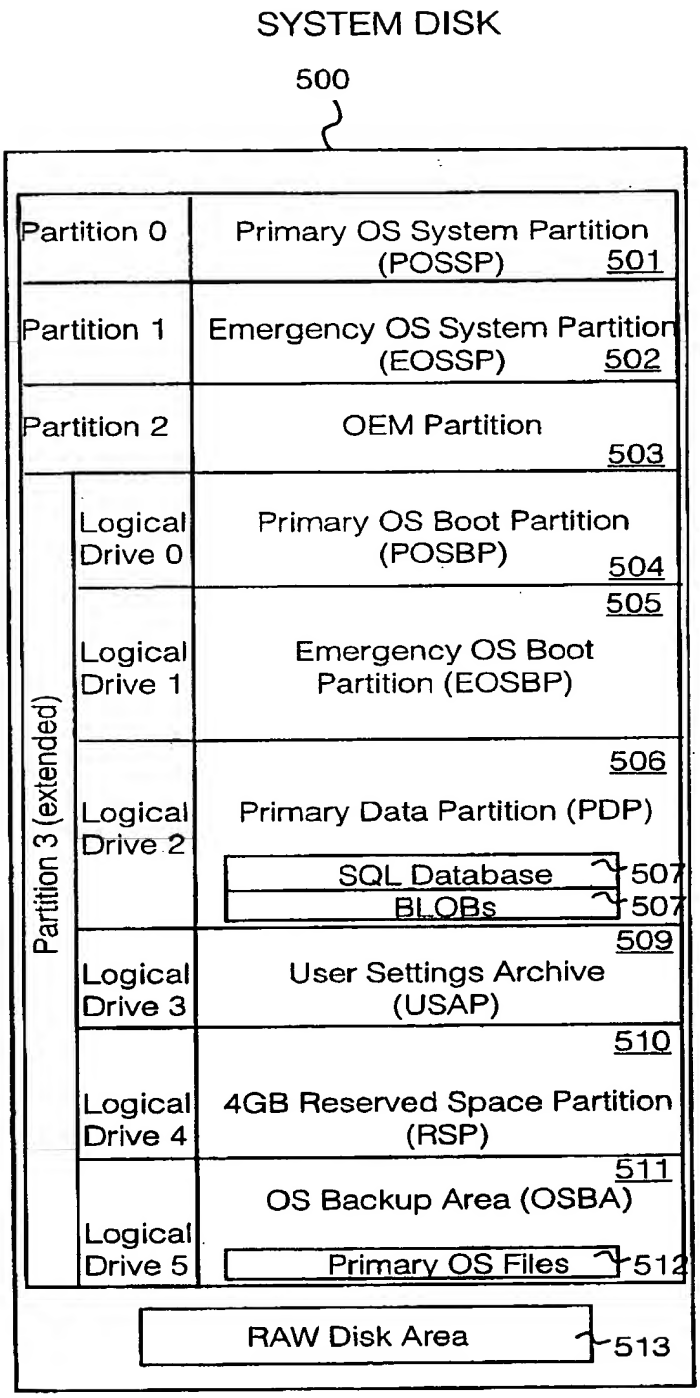
SYSTEM DISK
500
Partition 0
Primary OS System Partition (POSSP) 501
Partition 1
Emergency OS System Partition (EOSSP) 502
Partition 2
OEM Partition 503
Partition 3 (extended)
Logical Drive 0
Primary OS Boot Partition (POSBP) 504
Logical Drive 1
505
Emergency OS Boot Partition (EOSBP)
Logical Drive 2
506
Primary Data Partition (PDP)
SQL Database 507
BLOBs 507
Logical Drive 3
509
User Settings Archive (USAP)
Logical Drive 4
510
4GB Reserved Space Partition (RSP)
Logical Drive 5
511
OS Backup Area (OSBA)
Primary OS Files 512
RAW Disk Area 513

Fig. 5

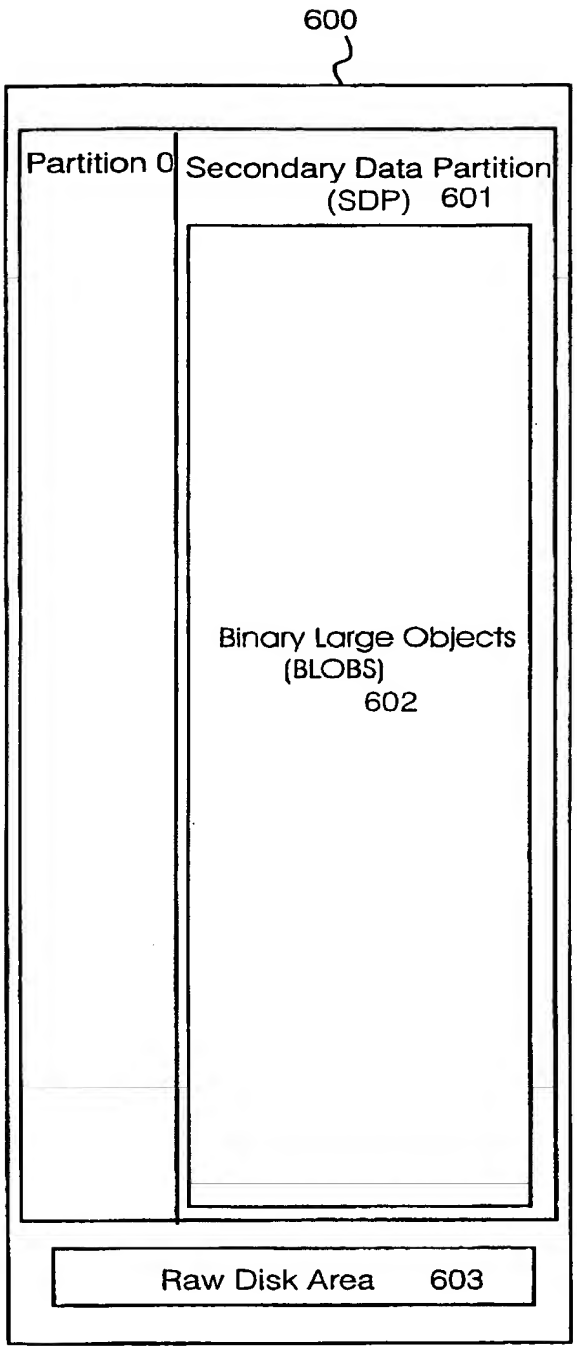
600
Partition 0
Secondary Data Partition
(SDP) 601
Binary Large Objects
(BLOBS)
602
Raw Disk Area 603

Fig. 6

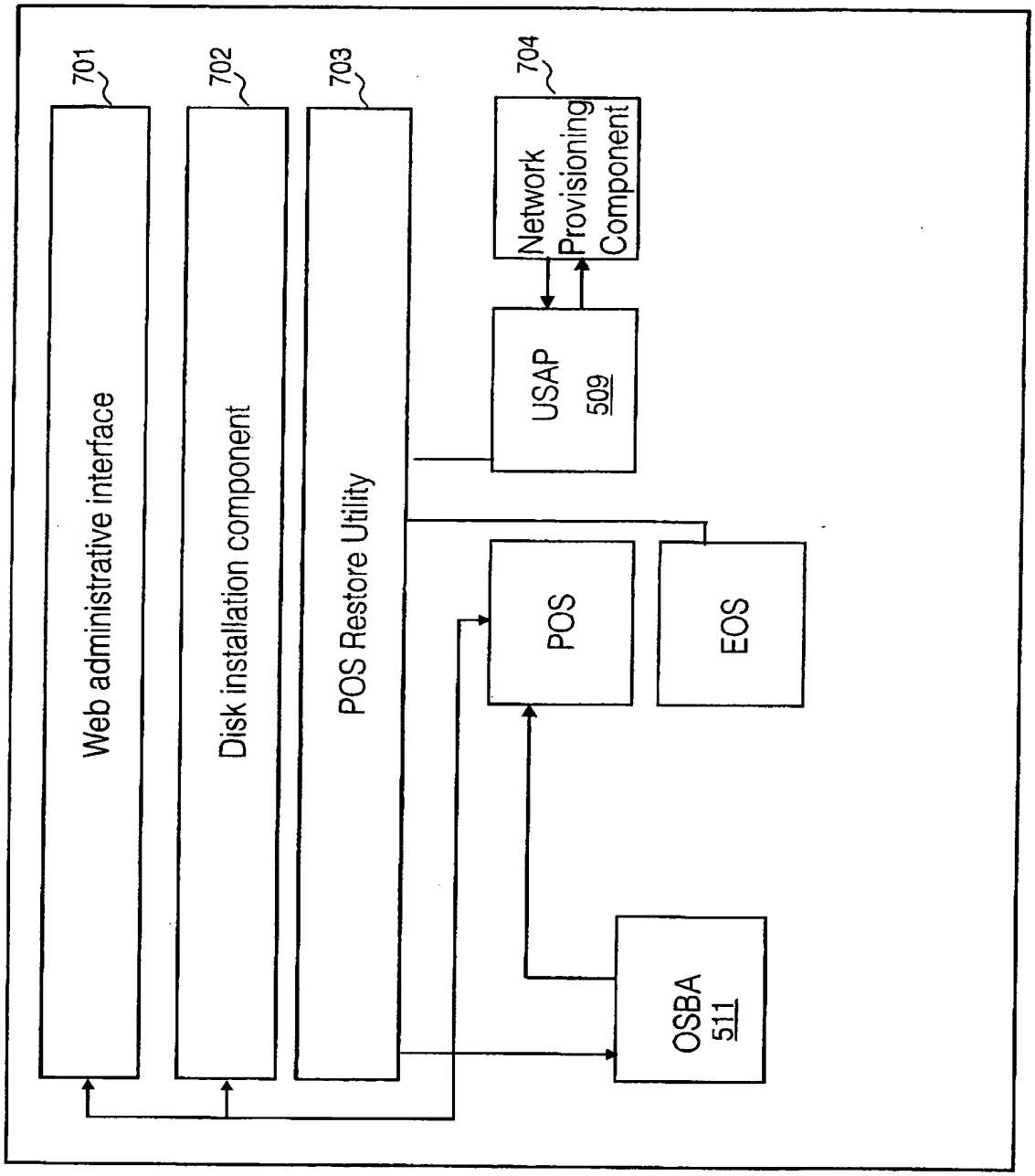
701
Web administrative interface
702
Disk installation component
703
POS Restore Utility
704
Network Provisioning Component
USAP 509
POS
EOS
OSBA 511

Fig. 7

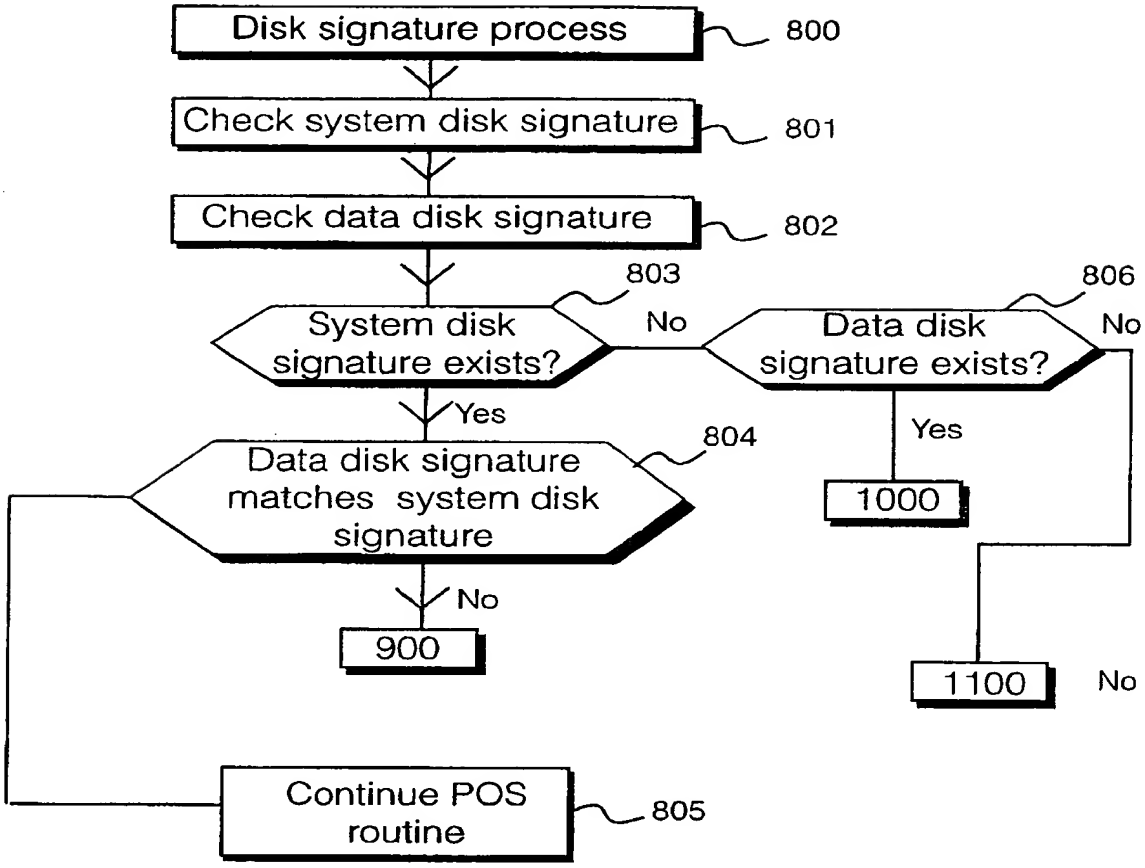
Disk signature process
800
Check system disk signature
801
Check data disk signature
802
803
System disk signature exists?
No
Yes
804
Data disk signature matches system disk signature
No
900
806
Data disk signature exists?
No
Yes
1000
1100
No
Continue POS routine
805

Fig. 8

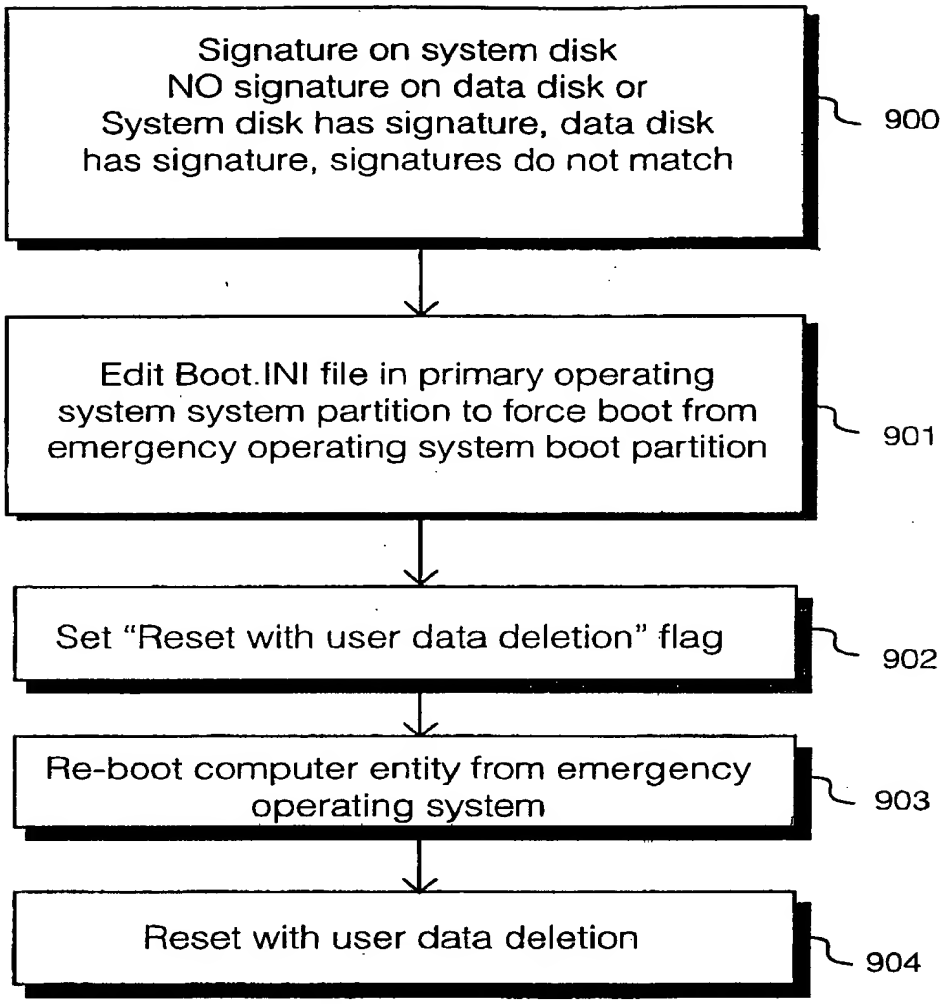
Signature on system disk
NO signature on data disk or
System disk has signature, data disk
has signature, signatures do not match
900
Edit Boot.INI file in primary operating
system system partition to force boot from
emergency operating system boot partition
901
Set "Reset with user data deletion" flag
902
Re-boot computer entity from emergency
operating system
903
Reset with user data deletion
904

Fig. 9

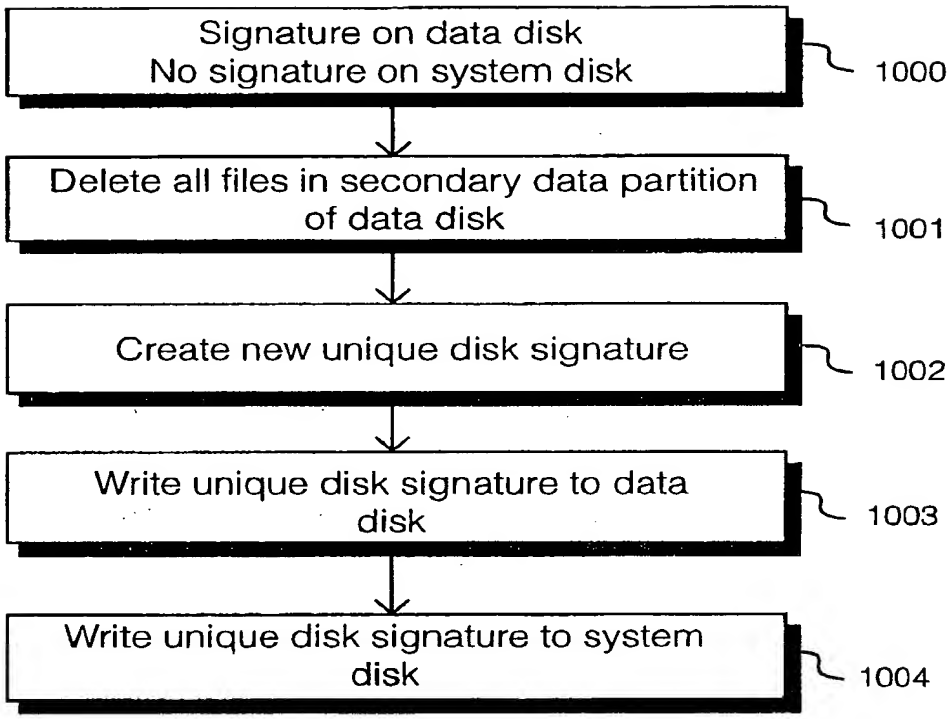
Signature on data disk
No signature on system disk
1000
Delete all files in secondary data partition of data disk
1001
Create new unique disk signature
1002
Write unique disk signature to data disk
1003
Write unique disk signature to system disk
1004

Fig. 10

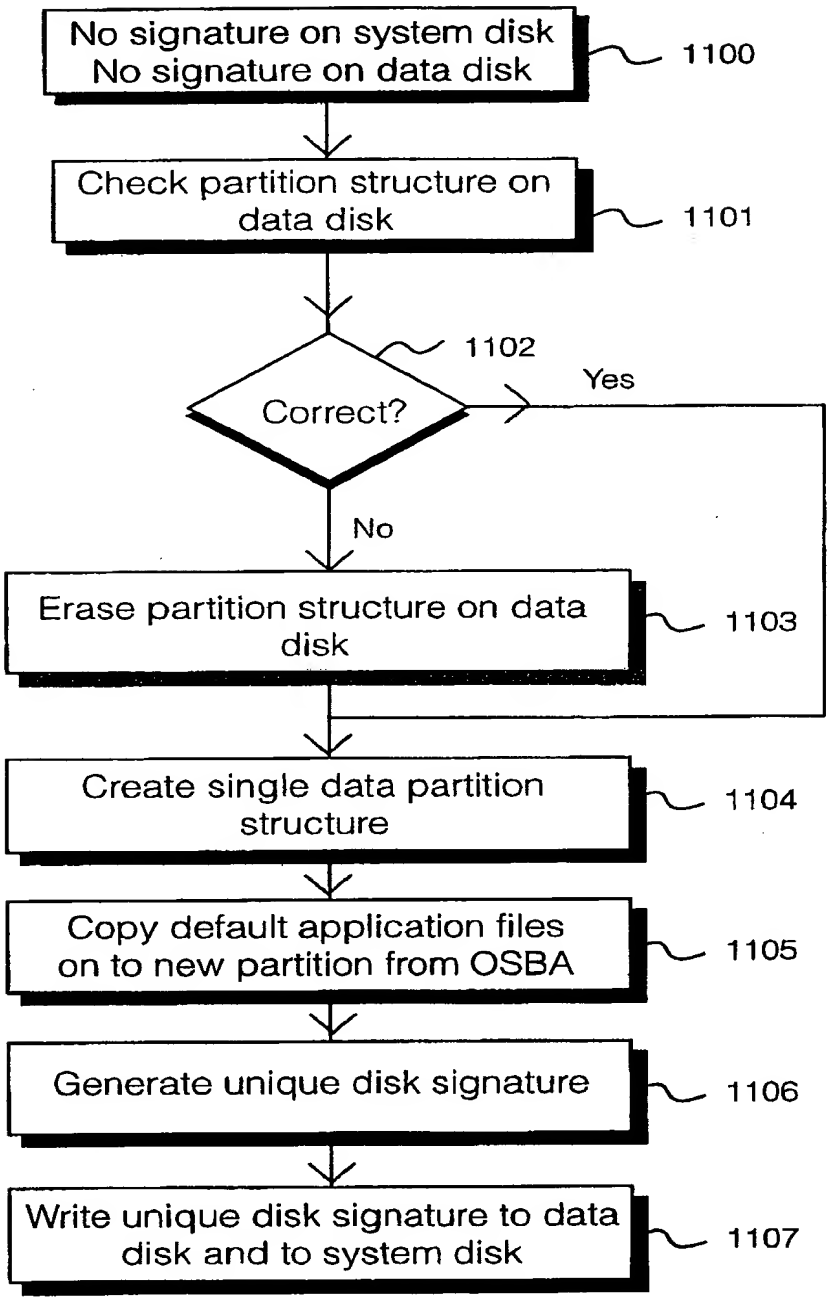
No signature on system disk
No signature on data disk
1100
Check partition structure on data disk
1101
1102
Correct?
Yes
No
Erase partition structure on data disk
1103
Create single data partition structure
1104
Copy default application files on to new partition from OSBA
1105
Generate unique disk signature
1106
Write unique disk signature to data disk and to system disk
1107

Fig. 11

Replacement Sheet

1200 System Reset: Restore user settings	1201 System Reset: Manual Initiation	1202 System Reset: Data Deleted	Alert
SET			System was automatically repaired after operating system failure, without any loss of backup data
SET	SET		System repair/update was manually initiated, without any loss of backup data
SET		SET	System automatically repaired after a data disk replacement, but backup data could not be recovered and so was deleted
SET	SET	SET	System repair/update manually initiated, but backup data has been deleted

1203

Fig. 12

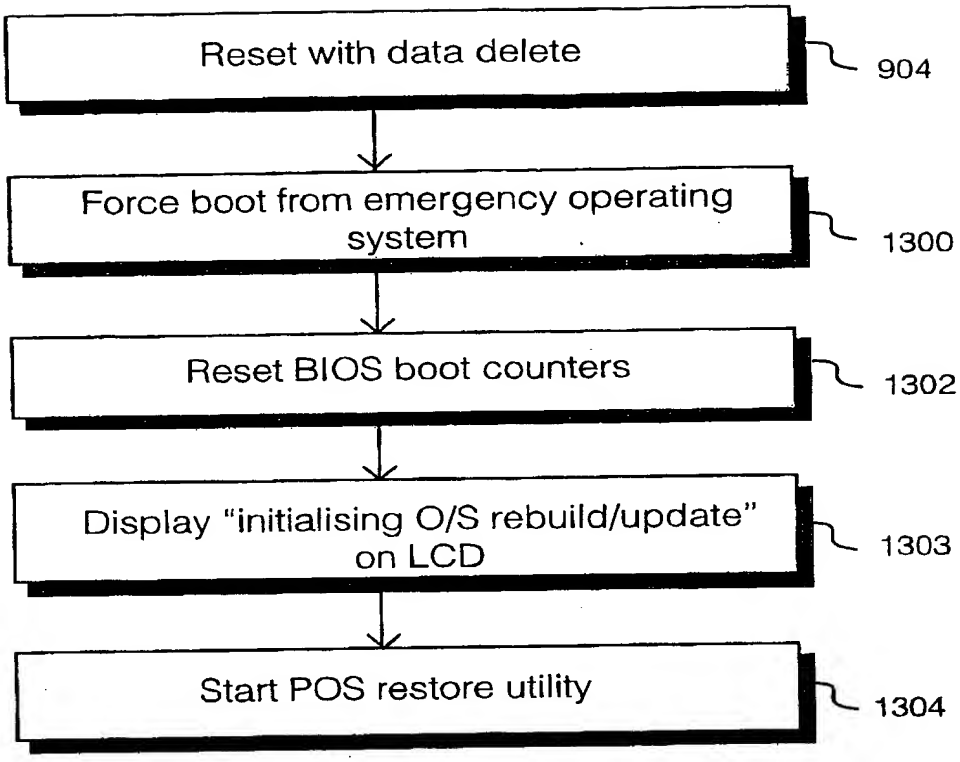
Reset with data delete
904
Force boot from emergency operating system
1300
Reset BIOS boot counters
1302
Display "initialising O/S rebuild/update" on LCD
1303
Start POS restore utility
1304

Fig. 13

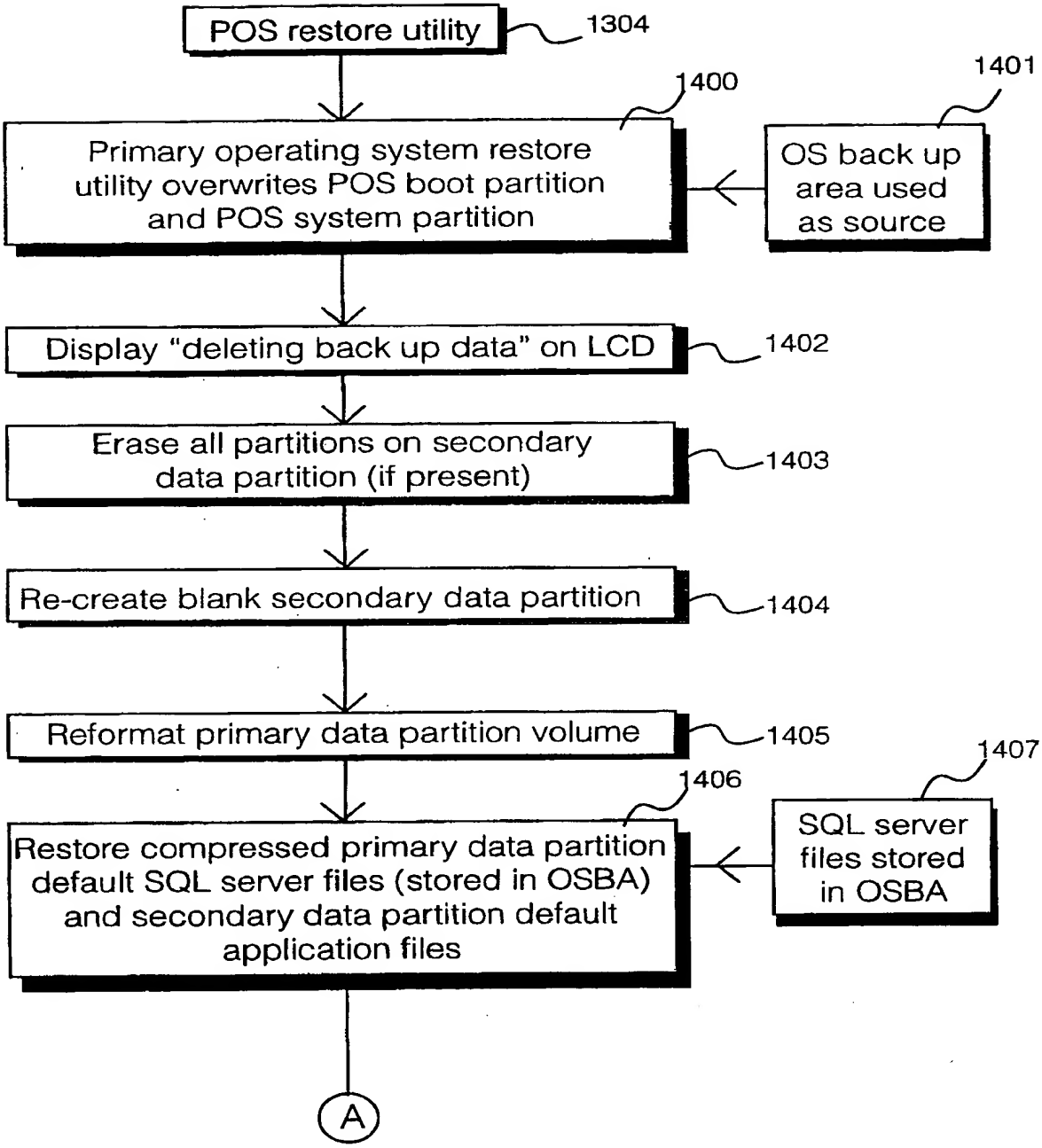
POS restore utility
1304
1400
1401
Primary operating system restore utility overwrites POS boot partition and POS system partition
OS back up area used as source
Display "deleting back up data" on LCD
1402
Erase all partitions on secondary data partition (if present)
1403
Re-create blank secondary data partition
1404
Reformat primary data partition volume
1405
1406
1407
Restore compressed primary data partition default SQL server files (stored in OSBA) and secondary data partition default application files
SQL server files stored in OSBA
A

Fig. 14a

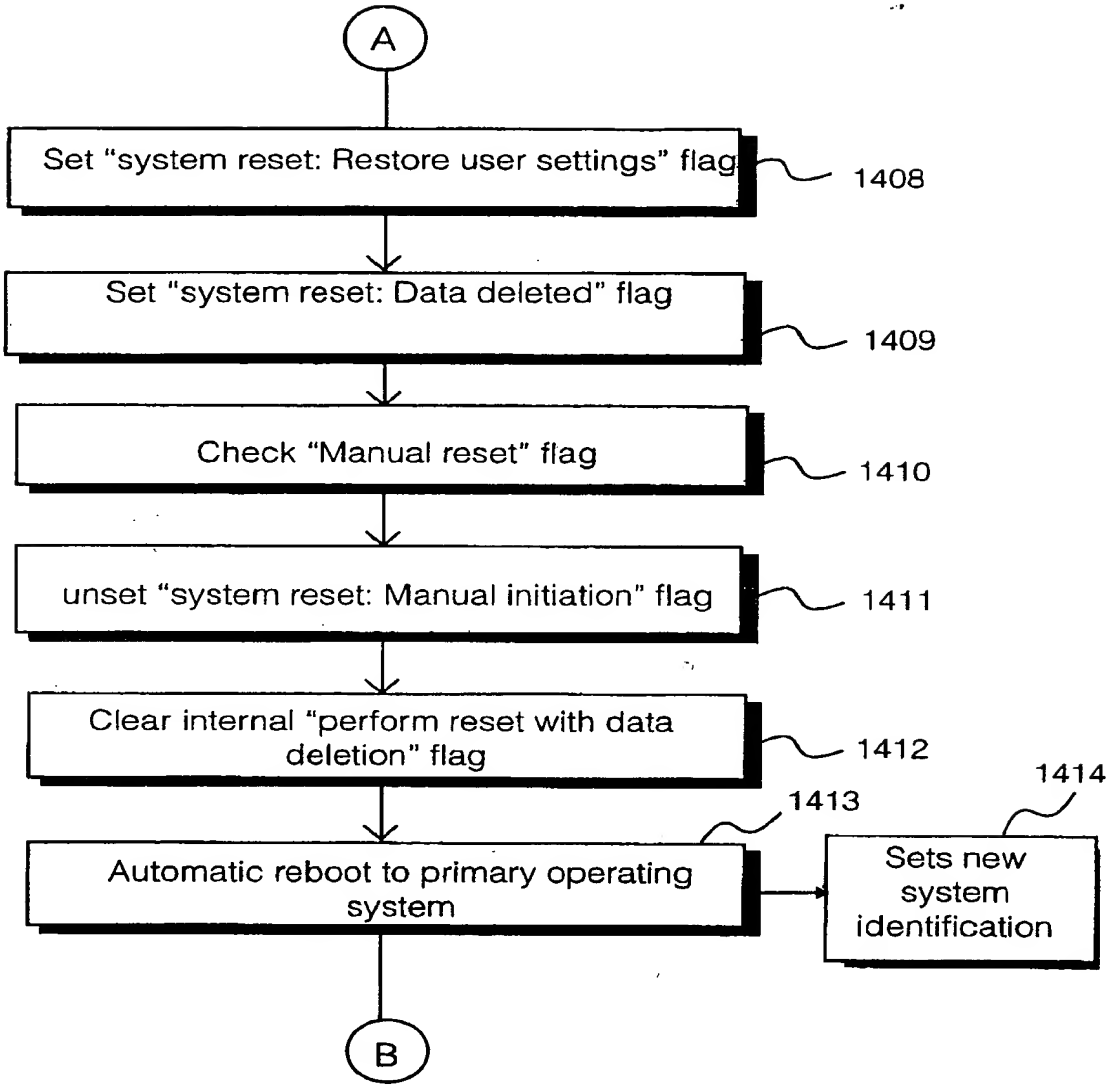
A
Set "system reset: Restore user settings" flag
1408
Set "system reset: Data deleted" flag
1409
Check "Manual reset" flag
1410
unset "system reset: Manual initiation" flag
1411
Clear internal "perform reset with data deletion" flag
1412
1413
1414
Automatic reboot to primary operating system
Sets new system identification
B

Fig. 14b

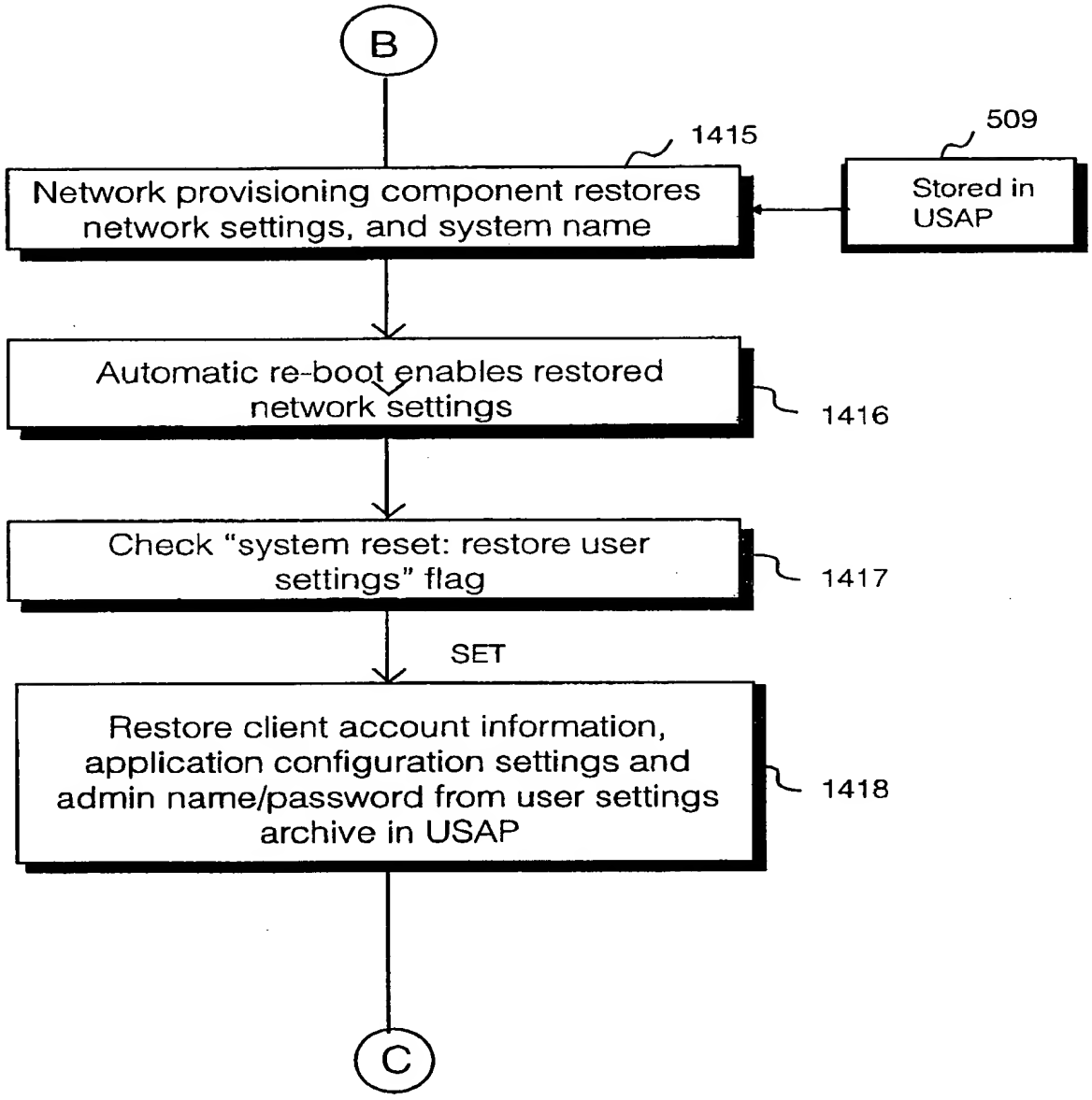
B
1415
509
Network provisioning component restores network settings, and system name
Stored in USAP
Automatic re-boot enables restored network settings
1416
Check "system reset: restore user settings" flag
1417
SET
Restore client account information, application configuration settings and admin name/password from user settings archive in USAP
1418
C

Fig. 14c

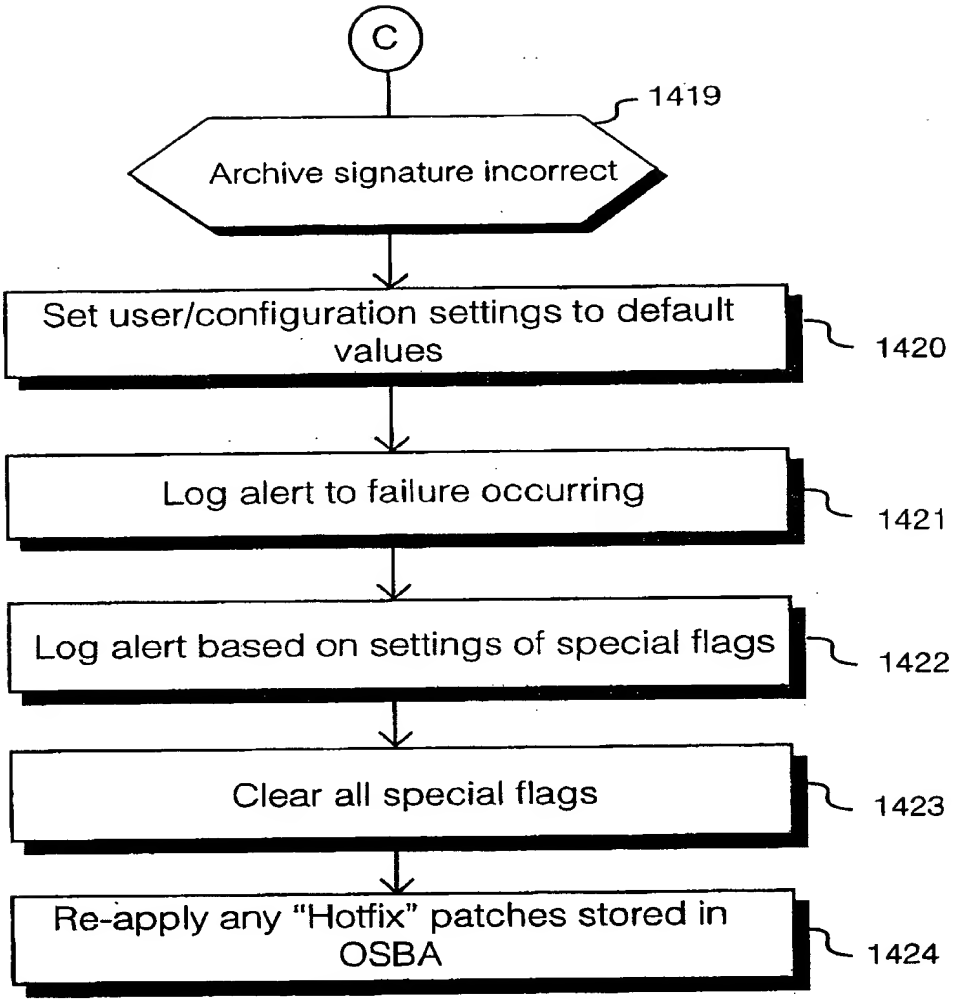
C
1419
Archive signature incorrect
Set user/configuration settings to default values
1420
Log alert to failure occurring
1421
Log alert based on settings of special flags
1422
Clear all special flags
1423
Re-apply any "Hotfix" patches stored in OSBA
1424

Fig. 14d